



Web Application Programming Technology—Programming Emphasis

Associate in Applied Science-Transfer

90 credits

The Associate in Applied Science (AAS) degree is a technical degree in web application programming technology prepares students for a career as a web developer. The degree provides an emphasis on either programming, mobile or web technologies.

Web application developers design, create, and test new applications, beginning by analyzing client or project requirements. During development they act as skilled problem solvers and clear communicators. Web application programmers work in cross-functional teams; design and create user interfaces; write client and server code conforming to industry standards; utilize development frameworks, web services, and databases; accurately estimate their time-on-task; manage their portion of a project; and clearly document their work.

Upon successful completion of this degree a student will be able to:

- Apply critical thinking and logical reasoning to design and technical problems in web development generally, with a focus on their area of emphasis
- Communicate effectively as web development professionals, interacting with clients and collaborating within development teams.
- Develop solid visual and logical design skills, paying close attention to detail, current standards, application usability, and security
- Design, produce, and test new web applications to be visually appealing and function effectively to meet users' needs
- Assess and select application frameworks and development methodologies appropriate to the particular project scope

Completion Requirements – Programming Emphasis

The Programming Emphasis of the Web Application Programming Technology degree requires at least 90 credits in college level courses (numbered 100 or above), a minimum cumulative 2.0 grade point average, a minimum of 25 credits from Cascadia, and completion of all of the requirements for this degree. Students must meet with an advisor to complete and submit an application for graduation.

GENERAL EDUCATION CORE REQUIREMENTS

10 CREDITS

Course ID	Course Name	Lec	Lab	Other	Credits
ENGL&101	English Composition I	55			5.0
MATH&107, or MATH&141, or MATH&146, or MATH 147, or PHIL& 120	Math in Society, or Precalculus I, or Introduction to Statistics, or Business Precalculus, or Symbolic Logic	55			5.0

HUMANITIES / SOCIAL SCIENCES REQUIREMENTS**15 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
BUS&101	Introduction to Business	55			5.0
CMST 105	Professional Communication	55			5.0
ANTH, ECON, GS, HIST, POLS, PSYC	GS designated Social Sciences course	55			5.0

PROGRAM REQUIREMENTS**50 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
IT 105	Careers in Professional Technology	22			2.0
IT-WEB 112	Basics Of Web Authoring	55			5.0
IT-WEB 113	User Interface Development	55			5.0
IT-CS 115	Intro To Programming	55			5.0
IT-CS 116	Scripting	55			5.0
IT-CS 142	Intermediate Programming	55			5.0
IT 158	Beginning Database		22		1.0
IT-WEB 160	Digital Imaging		22		1.0
IT-WEB 161	Vector Graphics		22		1.0
IT- 220	Elements Of Project Management	55			5.0
IT 275	Database Design	55			5.0
IT-WEB 285	Web Applications I	55			5.0
IT-WEB 286	Web Applications II	55			5.0

PROGRAMMING EMPHASIS REQUIREMENTS**10 CREDITS**

Course ID	Course Name	Lec	Lab	Other	Credits
IT-CS 143	Programming Data Structures	55			5.0
IT-CS 265	Structures & Algorithms	55			5.0

REQUIRED ELECTIVE CREDITS**5 CREDITS**

Students should choose a combination of the following variable credit courses for a total of five credits.

Course ID	Course Name	Lec	Lab	Other	Credits
IT 197 or 297 IT 199 or 299	IT Work-based Learning I or II Service Learning in IT I or II			33-165	5.0